

FORM 170-1449 U.S. Department of Commerce Patent and Trademark Office List of Documents Cited by Applicant	Attorney Docket No.: ST01013USU (102-US-U1)	Serial No.: 09/920,898
	Applicant(s): SiRF Technology	, Inc.
	Filing Date: August 2, 2004	Group: 2681

U.S. PATENT DOCUMENTS

Examiner Initial	No.	Document Number	Date	Name	Cla	SS	Subclass				Filing date if Appropria te
g	01	4,426,712	01/17/1984	Gorski-Popiel	(·					
R	02	4,445,118	04/24/1984	Taylor et al							
gn	03	4,463,357	07/31/1984	MacDoran		\prod					
gn	04	4,578,678	03/25/1986	Hurd		\prod					
9	05	4,667,203	05/19/1987	Counselman, III		\prod					
g.	06	4,701,934	10/10/1987	Jasper							
gi.	07	4,754,465	06/28/1988	Trimble			\prod				
n	08	4,785,463	06/28/1988	Janc et al	·						
gr.	09	4,809,005	11/15/1988	Counselman, III			V				
gu	10	4,821,294	02/28/1989	Thomas Jr.							
Gr.	11	4,890,233	12/26/1989	Ando et al							
2	12	4,894,662	01/16/1990	Counselman							
gi	13	4,998,111	03/05/1991	Ma et al							
Sh	14	5,014,066	05/07/1991	Counselman, III							
gri	15	5,036,329	08/27/1991	Ando							
ĝ.	16	5,043,736	08/27/1991	Damell et al							

Serial No. 209/920,898

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<u>w</u>										<u>.</u>
717	5,108,334	04/28/1992	Eschenbach et al		<u> </u>		`			
18	5,177,490	01/05/1993	Ando et al		\prod					
19	5,202,829	04/13/1993	Geier	_	\					
20	5,223,844	06/29/1993	Mansell et al							
21	5,225,842	07/06/1993	Brown et al				T			
22	5,293,170	03/08/1994	Lorenz et al					,		
23	5,311,195	05/10/1994	Mathis et al							
24	5,323,164	06/21/1994	Endo							
25	5,343,209	08/30/1994	Senott et al							
26	5,345,244	09/06/1994	Goldon et al Gilden et al							
27	5,347,284	09/13/1994	Volpi et al							
28	5,347,536	09/13/1994	Meehan							i
29	5,365,450	11/15/1994	Schuchman et al							
30	5,379,224	01/03/1995	Brown et al							
31	5,402,347	03/28/1995	McBurney et al							
32	5,416,712	05/16/1995	Geier et al							
33	5,420,593	05/30/1995	Niles							
34	5,422,813	06/06/1995	Schuchman et al							· · · · · ·
35	5,440,313	08/08/1995	Osterdock et al							
36	5,450,344	09/12/1995	Woo et al							
37	5,504,684	04/02/1996	Lau et al							
38	5,506,587	04/09/1996	Lans							
39	5,535,278	07/09/1996	Cahn et al							
40	5,587,715	12/24/1996	Lewis							
41	5,592,173	01/07/1997	Lau et al							
	18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	18 5,177,490 19 5,202,829 20 5,223,844 21 5,225,842 22 5,293,170 23 5,311,195 24 5,323,164 25 5,343,209 26 5,345,244 27 5,347,284 28 5,347,536 29 5,365,450 30 5,379,224 31 5,402,347 32 5,416,712 33 5,420,593 34 5,422,813 35 5,440,313 36 5,450,344 37 5,504,684 38 5,506,587 39 5,535,278 40 5,587,715	18 5,177,490 01/05/1993 19 5,202,829 04/13/1993 20 5,223,844 06/29/1993 21 5,225,842 07/06/1993 22 5,293,170 03/08/1994 23 5,311,195 05/10/1994 24 5,323,164 06/21/1994 25 5,343,209 08/30/1994 26 5,345,244 09/06/1994 27 5,347,284 09/13/1994 28 5,347,536 09/13/1994 29 5,365,450 11/15/1994 30 5,379,224 01/03/1995 31 5,402,347 03/28/1995 32 5,416,712 05/16/1995 33 5,420,593 05/30/1995 34 5,422,813 06/06/1995 35 5,440,313 08/08/1995 36 5,450,344 09/12/1995 37 5,504,684 04/02/1996 38 5,506,587 04/09/1996 39 5,535,278 07/09/1996 40 5,587,715 12/24/1996	18 5,177,490 01/05/1993 Ando et al 19 5,202,829 04/13/1993 Geier 20 5,223,844 06/29/1993 Mansell et al 21 5,225,842 07/06/1993 Brown et al 22 5,293,170 03/08/1994 Lorenz et al 23 5,311,195 05/10/1994 Mathis et al 24 5,323,164 06/21/1994 Endo 25 5,343,209 08/30/1994 Senott et al 26 5,345,244 09/06/1994 Coldea et al (a), ldea et al 27 5,347,284 09/13/1994 Volpi et al 28 5,347,536 09/13/1994 Meehan 29 5,365,450 11/15/1994 Schuchman et al 30 5,379,224 01/03/1995 Brown et al 31 5,402,347 03/28/1995 McBurney et al 32 5,416,712 05/16/1995 Geier et al 33 5,420,593 05/30/1995 Niles 34 5,422,813 06/06/1995 Schuchman et al 35 5,440,313 08/08/1995 Osterdock et al 36 5,450,344 09/12/1995 Woo et al 37 5,504,684 04/02/1996 Lau et al 38 5,506,587 04/09/1996 Cahn et al 40 5,587,715 12/24/1996 Lewis	18 5,177,490 01/05/1993 Ando et al 19 5,202,829 04/13/1993 Geier 20 5,223,844 06/29/1993 Mansell et al 21 5,225,842 07/06/1993 Brown et al 22 5,293,170 03/08/1994 Lorenz et al 23 5,311,195 05/10/1994 Mathis et al 24 5,323,164 06/21/1994 Endo 25 5,343,209 08/30/1994 Senott et al 26 5,345,244 09/06/1994 Coldea et al Gillea et al 27 5,347,284 09/13/1994 Volpi et al 28 5,347,536 09/13/1994 Meehan 29 5,365,450 11/15/1994 Schuchman et al 30 5,379,224 01/03/1995 Brown et al 31 5,402,347 03/28/1995 McBurney et al 32 5,416,712 05/16/1995 Geier et al 33 5,420,593 05/30/1995 Niles 34 5,422,813 06/06/1995 Schuchman et al 35 5,440,313 08/08/1995 Osterdock et al 36 5,450,344 09/12/1995 Woo et al 37 5,504,684 04/02/1996 Lau et al 38 5,506,587 04/09/1996 Cahn et al 40 5,587,715 12/24/1996 Lewis	18 5,177,490 01/05/1993 Ando et al 19 5,202,829 04/13/1993 Geier 20 5,223,844 06/29/1993 Mansell et al 21 5,225,842 07/06/1993 Brown et al 22 5,293,170 03/08/1994 Lorenz et al 23 5,311,195 05/10/1994 Mathis et al 24 5,323,164 06/21/1994 Endo 25 5,343,209 08/30/1994 Senott et al 26 5,345,244 09/06/1994 Goldea et al Gildea et al G	18 5,177,490 01/05/1993 Ando et al 19 5,202,829 04/13/1993 Geier 20 5,223,844 06/29/1993 Mansell et al 21 5,225,842 07/06/1993 Brown et al 22 5,293,170 03/08/1994 Lorenz et al 23 5,311,195 05/10/1994 Mathis et al 24 5,323,164 06/21/1994 Endo 25 5,343,209 08/30/1994 Senott et al 26 5,345,244 09/06/1994 Coldea et al (i)	18 5,177,490 01/05/1993 Ando et al 19 5,202,829 04/13/1993 Geier 20 5,223,844 06/29/1993 Mansell et al 21 5,225,842 07/06/1993 Brown et al 22 5,293,170 03/08/1994 Lorenz et al 23 5,311,195 05/10/1994 Mathis et al 24 5,323,164 06/21/1994 Endo 25 5,343,209 08/30/1994 Senott et al 26 5,345,244 09/06/1994 Geldee et al G, ldea et al 27 5,347,284 09/13/1994 Volpi et al 28 5,347,536 09/13/1994 Weehan 29 5,365,450 11/15/1994 Schuchman et al 30 5,379,224 01/03/1995 Brown et al 31 5,402,347 03/28/1995 McBurney et al 32 5,416,712 05/16/1995 Geier et al 33 5,420,593 05/30/1995 Niles 34 5,422,813 06/06/1995 Schuchman et al 35 5,440,313 08/08/1995 Osterdock et al 36 5,450,344 09/12/1995 Woo et al 37 5,504,684 04/02/1996 Lau et al 38 5,506,587 04/09/1996 Cahn et al	18 5,177,490 01/05/1993 Ando et al 19 5,202,829 04/13/1993 Geier 20 5,223,844 06/29/1993 Mansell et al 21 5,225,842 07/06/1993 Brown et al 22 5,293,170 03/08/1994 Lorenz et al 23 5,311,195 05/10/1994 Mathis et al 24 5,323,164 06/21/1994 Endo 25 5,343,209 08/30/1994 Senott et al 26 5,345,244 09/06/1994 Coldea et al (a) (b) (a) (c) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	18 5,177,490 01/05/1993 Ando et al 19 5,202,829 04/13/1993 Geier 20 5,223,844 06/29/1993 Brown et al 21 5,225,842 07/06/1993 Brown et al 22 5,293,170 03/08/1994 Lorenz et al 23 5,311,195 05/10/1994 Mathis et al 24 5,323,164 06/21/1994 Endo 25 5,343,209 08/30/1994 Senott et al 26 5,345,244 09/06/1994 Geldea et al Gi, Uza et al 27 5,347,284 09/13/1994 Volpi et al 28 5,347,536 09/13/1994 Meehan 29 5,365,450 11/15/1994 Schuchman et al 30 5,379,224 01/03/1995 Brown et al 31 5,402,347 03/28/1995 McBurney et al 32 5,416,712 05/16/1995 Geier et al 33 5,420,593 05/30/1995 Niles 34 5,422,813 06/06/1995 Schuchman et al 36 5,450,344 09/12/1995 Woo et al 37 5,504,684 04/02/1996 Lau et al 38 5,506,587 04/09/1996 Cahn et al

. Serial No.: 09/920,898 HOV 1 5 2004

		TRAI	EMASE		 		
and the	42 .	5,625,668	04/29/1997	Loomis et al		<u> </u>	
3.	43	5,663,734	09/02/1997	Krasner			
n	44	5,663,735	09/02/1997	Eshenbach			
3	45	5,666,330	09/09/1997	Zampetti			
5.	46	5,701,328	12/23/1997	Schuchman et al			
2.	47	5,726,893	03/10/1998	Schuchman et al			
2	48	5,739,786	04/14/1998	Greenspan et al			
Gi	49	5,757,786	05/26/1998	Joo			
2	50	5,781,156	07/14/1998	Krasner	\int		
sh-	51	5,786,789	07/28/1998	Janky			
5	52	5,812,087	09/22/1998	Krasner	Ш		
Si	53	5,825,327	10/20/1998	Krasner			
gi	54	5,828,694	10/27/1998	Schipper			
an.	55	5,831,574	11/03/1998	Krasner			
2	56	5,841,396	11/24/1998	Krasner			
3	57	5,845,203	12/01/1998	LaDue			
9.	58	5,854,605	12/29/1998	Gildea			
n	59	5,874,914	02/23/1999	Krasner			
5.	60	5,877,724	03/02/1999	Davis			
2	61	5,877,725	03/02/1999	Kalafus		·	·
9.	62	5,883,594	03/16/1999	Lau			
3	63	5,884,214	03/16/1999	Krasner			
9.	64	5,889,474	03/30/1999	LaDue]	•	
9.	65	5,903 <u>,</u> 654	05/11/1999	Milton et al			·
9.	66	5,907,809	05/25/1999	Molnar et al			

Serial No.: 09/920,898

89

90

91

6,081,229

6,104,338

6,104,340

06/27/2000

08/15/2000

08/15/2000

Soliman et al

Krasner

Krasner

NOV 1 5 2004

Page 4 of 7 THAUEY 5,917,444 67 06/29/1999 Loomis et al 68 5,920,283 07/06/1999 Shaheen et al 07/13/1999 69 5,923,703 Pon et al 07/20/1999 Sakumoto et al 70 5,926,131 71 08/10/1999 Loomis et al 5,936,572 08/17/1999 Forseth et al 72 5,940,027 Hanson et al 73 5,943,363 08/24/1999 74 08/31/1999 5,945,944 Krasner 75 5,963,582 10/05/1999 Stansell, Jr. Harrison et al 76 5,977,909 11/02/1999 77 5,982,324 11/09/1999 Watters et al 78 11/16/1999 5,987,016 He 79 12/07/1999 Sheynblat 5,999,124 80 6,002,362 12/14/1999 Gudat 81 6,002,363 12/14/1999 Krasner Sheynblat 82 6,009,551 12/28/1999 83 6,016,119 01/18/2000 Krasner 84 6,041,222 02/21/2000 Horton et al 04/04/2000 Cahn et al 85 6,047,017 86 04/18/2000 Krasner 6,052,081 87 6,061,018 05/09/2000 Sheynblat 05/16/2000 88 6,064,336 Krasner

		AT STATE OF THE ST	mer &			
A	92	6,104,712	08/15/2000	Robert et al	 	
2	93	6,107,960	08/22/2000	Krasner		
2	94	6,111,540	08/29/2000	Krasner		
2	95	6,111,541	08/29/2000	Karmel		
. 6	96	6,122,506	09/19/2000	Lau et al		
2	97	6,131,067	10/10/2000	Ginerd et al		
2	98	6,133,871	10/17/2000	Krasner		
2	99	6,133,873	10/17/2000	Krasner		
9	100	6,133,874	10/17/2000	Krasner		
9.	101	6,150,980	11/21/2000	Krasner		
2	102	6,172,640	01/09/2001	Durst et al		
2	103	6,178,195	01/23/2001	Durboraw, III et al		
2'	104	6,185,427	02/06/2001	Krasner et al		
3	105	6,188,351	02/13/2001	Bloebaum		
m	106	6,211,819	04/03/2001	King et al		
R	107	6,222,484	04/24/2001	Seiple et al		
2	108	6,225,944	05/01/2001	Hayes		
2	109	6,236,365	05/22/2001	LeBlanc et al		
2	110	6,249,245	06/19/2001	Watters et al		
9	111	6,263,280	07/17/2001	Stingone, Jr.		
9	112	6,347,228	02/12/2002	Ludden et al		
5.	113	6,353,412	03/05/2002	Soliman		
9	114	6,389,291	05/14/2002	Pande et al		
2:	115	6,400,314	06/04/2002	Krasner		
2.	116	6,405,132	06/11/2002	Breed et al		

Serial No.: 09/920,898

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	_	13	*						
9	117	6,411,811 PRADE	06/25/2002	Kingdon et al		·		7	
9	118	6,427,120	07/30/2002	Garin et al					
6	119	6,429,815	08/06/2002	Soliman ⁻					
g g	120	6,433,739	08/13/2002	Soliman		_			
· a-	121	6,456,234	09/24/2002	Johnson					
90	122	6,473,030	10/29/2002	McBurney et al			7		
a	123	6,480,145	11/12/2002	Hasegawa			/		
2	124	6,505,161	01/07/2003	Brems					
5	125	6,519,466	02/11/2003	Pande et al					
gi	126	6,526,352	02/25/2003	Breed et al		\exists		· ·	·
9	127	6,542,823	04/01/2003	Garin et al		T			
2	128	6,583,734	06/24/2003	Bates et al		\mathcal{T}			
2	129	6,633,255	10/14/2003	Krasner		T	;		
9.	130	6,677,894	01/13/2004	Sheynblat et al		Π			
9.	131	6,684,158	01/27/2004	Garin et al					
5	132	6,720,920	04/13/2004	Breed et al	\prod				
2	133	6,731,238	05/04/2004	Johnson	\prod				
2	134	6,738,630	05/18/2004	Ashmore	IL			,	
									

FOREIGN PATENT DOCUMENTS

·		Document Number	Date	Country	Name of Patentee or Applicant	Translation Yes No
	135	JP 58-105632	-06 /23/1983-			
2	136	GB 2,115,195	01/18/1983			
-	137	JP 7-36035	05/09/1986			The second section of the sec
gri	138	EP WO 90/11652	10/4/1990			

Serial No.: 09/920,898

EXAMINER

	<u> </u>	PRADEMIN								
9	139	EP 0511741	11/04/1992	-						
gi	140	JP 4-326079	11/16/1992			ABSTRACT				
9	141	WO 99/47943	09/23/1999		Qualcomm Inc					
gi	142	WO 00/10031	02/24/2000		Ericsson Inc.	·				
9	143	JP Laid-Open Pat. Pub. No. 2000- 102058	04/07/2000		NTT					
9	144	EP 1 092 987	04/18/2001	,	Sony Corp					
	ОТІ	HER DOCUMENTS (Including Auth	or, Title, Date,	Pertinent Pages, Etc.)				
9	New Fast GPS Code-Acquisition using FFT, Electronic Letters, Vol. 27, Number 2, pages 158-160 (1991)									
Ġ,	Novel Fast GPS/GLONASS Code Acquisition Technique Using Low Update Rate FFT, Electronic Letters, Vol. 28, Number 9, pages 863-865 (1992)									

*Examiner Initial if reference considered whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED